

- (1) பக்கங்களின் எண்ணிக்கை 12
 (2) புதுக்கித் திருப்பிய நாள் 20.7.84
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 6/19

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P.W.D துறை

அரசாணை எண். மு. கோப்புத் தாள் எண்.	2085	அச்சகம் பலவகை
நாள் :	31.7.1890	198

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

FROM, J. W. Martin Esquire

SUPERINTENDING ENGINEER

FIRST CIRCLE.

TO,

THE CHIEF ENGINEER

PUBLIC WORKS DEPARTMENT.

DOWLAISHWERAM, 26th June 1890

SIR,

Adverting to your memorandum

N^o 1776 C dated 9th April 1890 in the matter of the Central Jail at Rajahmundry, I have the honor to forward a plan and estimate amounting to Rs 1230 for altering the arrangements for working the pumps so as to allow the prisoners to work ~~the~~ by standing outside the well instead of standing directly over it.

2. The diameter of the well is 22 ft. At present the top is boarded over except for a small space over which there is wrought iron grating. There are two pumps situated near the centre of the well and there

Encls 10

- 1 Estimate with report
- 3 Drawings
- 1 Judicial Dept. Ref^r 506 of 1890 129-3-90
- 1 G.O. letter 910-3-90 to Mr. Croze
- 1 copy of letter from Inspectors General of Jails 76-2-90
- 1 Letter No 1 N^o 87 28-12-89 from Mr. Croze
- 1 Judicial G.O. No 156 of 31-3-90
- 1 Printed Schedule

there are four cranks for each pump two being on each side. It takes sixteen men to work one pump, eight being on each side and four at each crank. The men stand on the wooden covering over the well, and this is what the Inspector General of Jails disapproves for the men are said to foul the water.

3. To get over this difficulty the plan provides for extending the crank shaft from each side of the driving wheel to outside the well so that the men may stand clear of the well when working the pumps. Plan No 1 shows in the left side how the cranks are placed at present, and on the right side the new position proposed for them. This is the position they will occupy on each side of the well when each pump is altered, but only one side is shown on the tracing for otherwise the plan would be inconveniently large.

4. Altering the pumps as I propose will involve providing on each side two additional standards. This again

again will lead to a slight increase to the friction when working the pumps, ^{3/4} for there will be some friction at the additional standards, but this increase will not be much, and, consequently, I think, sixteen men will be able to work each pump as heretofore. However I have provided for making the new cranks five ft. wide against three feet three inches the width of the existing ones. This will admit of additional men being placed to the cranks if required.

5. Regarding para 2 of your memorandum referring to horse gear, I have considered about this, but I am of opinion that it would be impossible to work horse gearing with only sixteen men. However I have made a plan for this description of gearing, and I am sending it to you, for perhaps you may be able to see your way to suggesting some improvement. The plan provides for 83 logs in the driving wheel, 14 in the spur wheel, 83 in the large wheel at pump, and 41 in the wheel attached to

to the pump crank. The two latter wheels are now on the pumps. If the men walk at the rate of $1\frac{1}{2}$ miles per hour the pump will make about 30 strokes per minute, whereas at present it does not make more than between eight and ten when the men are working in their usual way. I consider, however, as stated already, that sixteen men could not work the gearing as arranged by me.

6 There is another objection to horse gearing, namely, that it would involve lowering the crank which works the pump rods. The standards supporting the crank are supported on girders let into the lining of the well. If horse gearing is provided the crank must be lowered about 5'-9" and this will involve lowering the girders and reducing the length of the pump rods. Moreover some temporary arrangement should be made for drawing water from the well during the time it would take to make all the alterations, for both pumps should be lowered at the same time. This is rather a serious matter
for

for one more water supply for the Jail is taken from the well. On the other ^{hand} if the pumps are altered, as I propose by merely extending the shaft from the driving wheel, one pump can be altered at a time and the other left in its present state to supply water daily.

7 With regard to the covering over the well, this may be all removed if the pumps are altered as I suggest, but in this case it will, I think, be necessary to provide either an iron or wooden grating over the well to prevent prisoners either jumping or falling into it. My estimate however does not provide for a grating for I believe the Jail authorities will be able to make one.

8 Regarding para 4 of your memorandum, the Executive Engineer has reported that all the alterations proposed by the Inspector General can be easily carried out. I have therefore directed him to submit an estimate for the work, and as soon as it is received I shall dispose
of

of it without delay

9. I regret that there has been
so much delay about submitting my sugges-
tions for altering the pumps. It is chiefly
due to my absence in camp from the
2nd May to the 14th instant.

I have the honor to be

sir

your most obedient servant

Wm Acton
Superintending Engineer

26/6/90 First circle.

KK

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FROM,

J. W. Martin Esq
SUPERINTENDING ENGINEER

FIRST CIRCLE.

TO,

THE CHIEF ENGINEER

PUBLIC WORKS DEPARTMENT.

DATED

26th

DESPATCHED

28th

1890

RECEIVED

No. 626 G.D.

ENCLOSURES

SUBJECT.

*Rajahmundry Central
jail well pump. Sub-
mits plans & estimate
for proposed alterations*

[25]

Judicial Department.



PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following paper

*Memorandum from the Public Works Depart-
ment dated 19th July 1890 No 4342, for
warding plans and estimate for the
proposed alterations to the well pump
Central Jail, Rajahmundry.
Order 24th July 1890 No 1236.*

*The arrangement recommended
in para 2 of the Joint Secretary's Memo
is approved.*

*(For Extract)
Middlemarch
Chief Secretary*



*To the Public Works Dept.
with all enclosures.*

208

To

Proceedings, dated
No.

183

Subject.

C. no 63287/180
434 D. 12.7.90
1776 C. 9.4.90
186-70 26.5.90
2160 - 4.6.90

a part of the file
San. & S. P. 180/180
25/1/91

0854/2731 July 1890

To.

The P.H. Dept

Encl 12 (3/4)

Recd 25/7/90

30 7-90

Proceedings, dated 24-7-1890

No. 1236

Subject.

Appraising certain
arrangements recommended
in para 2 of the report
by the Hon.

Communicated to the
Supr. S. I. Circle with
reference to his letter no
626 G. O. of 26 June 1890.
The enclos of the same are
herewith returned.

2. The estimate of
Rs. 1230 should be
submitted by the Supr.
S. I. carried out with
the least possible delay.
Sd. should be applied
for if required.

3. A copy of the office
memo by L. 34 of 12th
July 1890 to the P.H. Dept
is forwarded for infor-
mation & attention.

21/7/90

26/7/90

Copy to S. I. Circle
with the enclosure & copy
of memo by L. 34 of 12th
July 1890.

21/7/90
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